

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/012248

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G03F7/20 H01L21/47

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G03F H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 03, 31 March 1999 (1999-03-31) & JP 10 340846 A (NIKON CORP.), 22 December 1998 (1998-12-22) abstract & JP 10 340846 A (NIKON CORP.) 22 December 1998 (1998-12-22) paragraphs '0026! - '0032!; figures 1-3	1-17
X	US 5 900 354 A (BATCHELDER ET AL) 4 May 1999 (1999-05-04) column 6, line 50 - column 7, line 16; figure 3; table 1	1-17
X	----- -/-	-----

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- *&* document member of the same patent family

Date of the actual completion of the International search

25 July 2005

Date of mailing of the International search report

01/08/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patenttaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Thiele, N

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/012248

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 023 231 A (TABARELLI, WERNER W., DR) 4 February 1981 (1981-02-04) page 8, line 10 – page 9, line 19; claims 1,4-10; figures 3,4	1-17
X	ROTHSCHILD M ET AL: "Fluorine-an enabler in advanced photolithography" JOURNAL OF FLUORINE CHEMISTRY, ELSEVIER SEQUOIA, LAUSANNE, CH, vol. 122, no. 1, 1 July 2003 (2003-07-01), pages 3-10, XP004437021 ISSN: 0022-1139	1,2,17
A	Chapter 7	3-16
X	US 2001/043404 A1 (HATANO HITOSHI) 22 November 2001 (2001-11-22)	1,2,17
Y	paragraphs '0002!, '0012!, '0013!, '0038!, '0040!	3-16
A	US 6 236 493 B1 (SCHMIDT HELMUT ET AL) 22 May 2001 (2001-05-22) abstract	1-17
A	EP 0 967 513 A (DELEGATION GENERALE POUR L'ARMEMENT) 29 December 1999 (1999-12-29) paragraphs '0011!, '0029!, '0031!; claim 1	1-17
A	US 5 618 872 A (POHL ET AL) 8 April 1997 (1997-04-08) abstract	1-17
A	GB 627 719 A (EASTMAN KODAK COMPANY; GALE FRANCIS NADEAU; EDWIN ERNEST JELLEY) 15 August 1949 (1949-08-15) page 1, column 2, lines 50-66	1-17
E	WO 2005/006026 A (NIKON RESEARCH CORPORATION) 20 January 2005 (2005-01-20) paragraph '0027!	16
E	EP 1 522 894 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.) 13 April 2005 (2005-04-13) claims 1-10,16; figure 2	16
E	WO 2005/024325 A (TOKYO ELECTRON LTD.) 17 March 2005 (2005-03-17) claim 25	16
A	WO 00/06495 A (MINNESOTA MINING AND MANUFACTURING COMPANY; ARNEY, DAVID, S; WOOD, THO) 10 February 2000 (2000-02-10) page 1, lines 8-20; claims 1,14; examples 1-10	1,2,17
Y		3-16

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP2004/012248

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 10340846	A	22-12-1998	NONE			
US 5900354	A	04-05-1999	WO	9901797 A1		14-01-1999
EP 0023231	A	04-02-1981	EP	0023231 A1		04-02-1981
			AT	1462 T		15-08-1982
			DE	2963537 D1		07-10-1982
US 2001043404	A1	22-11-2001	JP	2001272604 A		05-10-2001
US 6236493	B1	22-05-2001	DE	19613645 A1		09-10-1997
			AT	204991 T		15-09-2001
			CN	1214773 A ,C		21-04-1999
			DE	59704453 D1		04-10-2001
			WO	9738333 A1		16-10-1997
			EP	0891565 A1		20-01-1999
			ES	2160343 T3		01-11-2001
			JP	2000508783 T		11-07-2000
EP 0967513	A	29-12-1999	FR	2780514 A1		31-12-1999
			EP	0967513 A1		29-12-1999
US 5618872	A	08-04-1997	DE	4219287 A1		16-12-1993
			AT	186061 T		15-11-1999
			DE	59309852 D1		02-12-1999
			WO	9325611 A1		23-12-1993
			EP	0644914 A1		29-03-1995
			JP	7507823 T		31-08-1995
			KR	263796 B1		16-08-2000
GB 627719	A	15-08-1949	NONE			
WO 2005006026	A	20-01-2005	WO	2005006026 A2		20-01-2005
EP 1522894	A	13-04-2005	JP	2005136374 A		26-05-2005
			EP	1522894 A2		13-04-2005
			US	2005074704 A1		07-04-2005
WO 2005024325	A	17-03-2005	US	2005046934 A1		03-03-2005
			WO	2005024325 A2		17-03-2005
WO 0006495	A	10-02-2000	WO	0006495 A1		10-02-2000
			AU	744976 B2		07-03-2002
			AU	2018699 A		21-02-2000
			AU	8761498 A		21-02-2000
			CA	2338917 A1		10-02-2000
			CA	2338920 A1		10-02-2000
			DE	69827166 D1		25-11-2004
			EP	1112228 A1		04-07-2001
			EP	1105430 A1		13-06-2001
			JP	2002521305 T		16-07-2002
			JP	2003521556 T		15-07-2003
			WO	0006622 A1		10-02-2000
			US	6329058 B1		11-12-2001